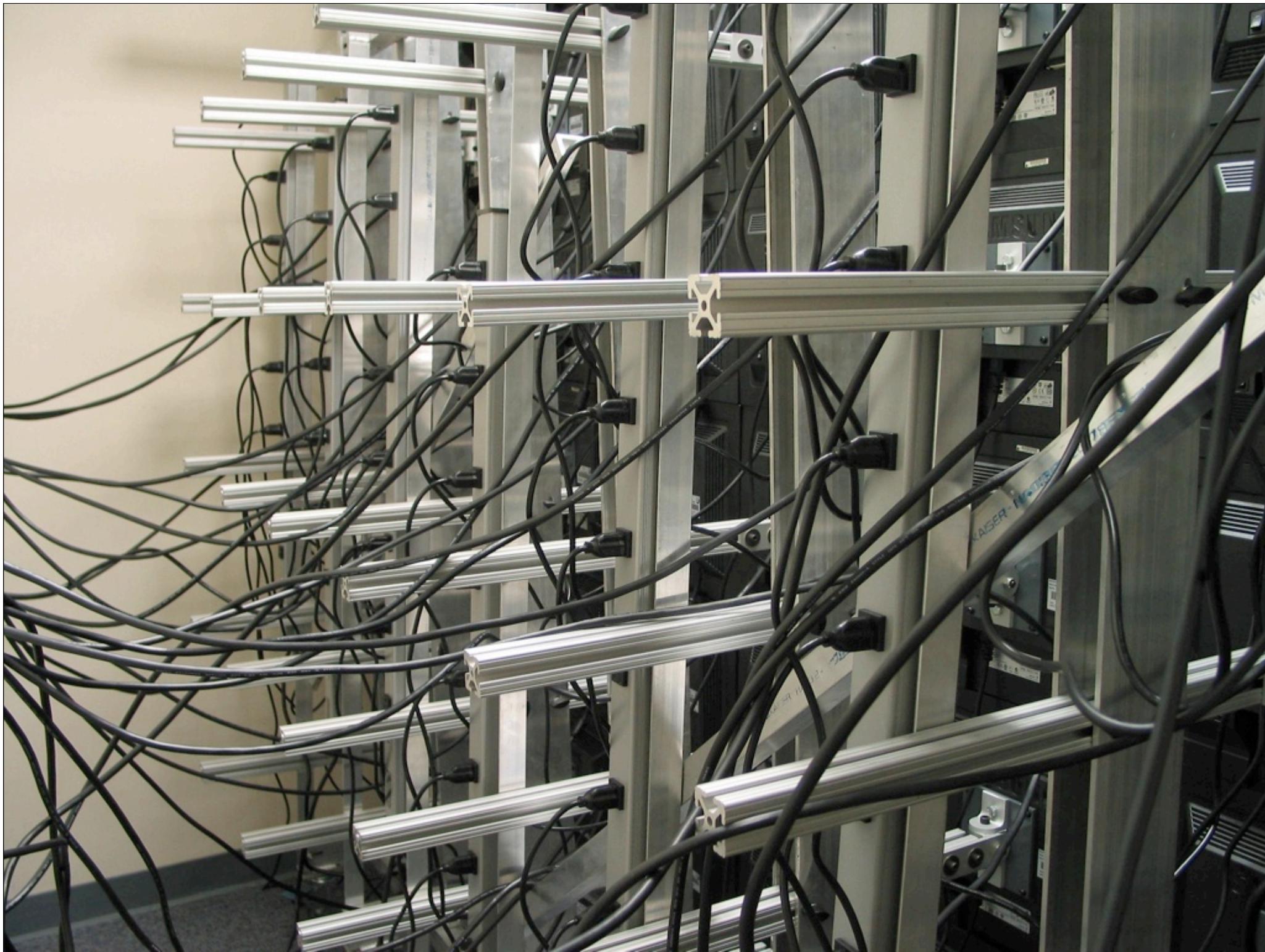
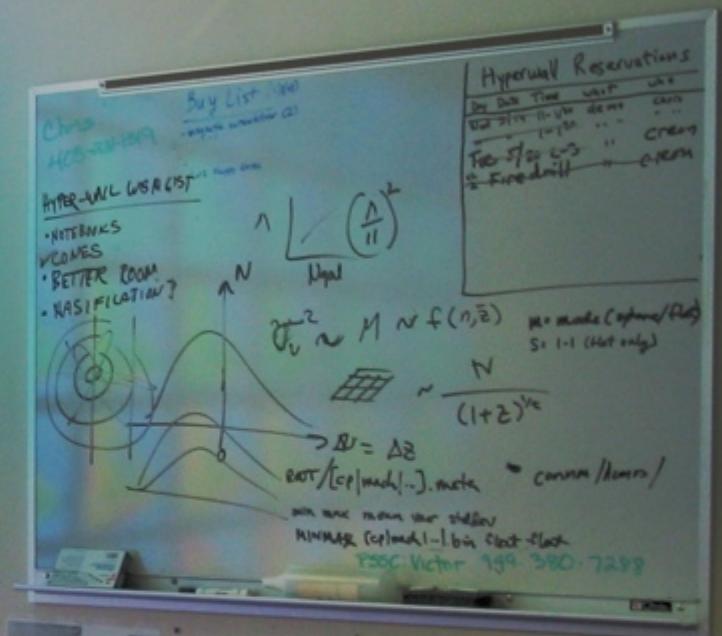
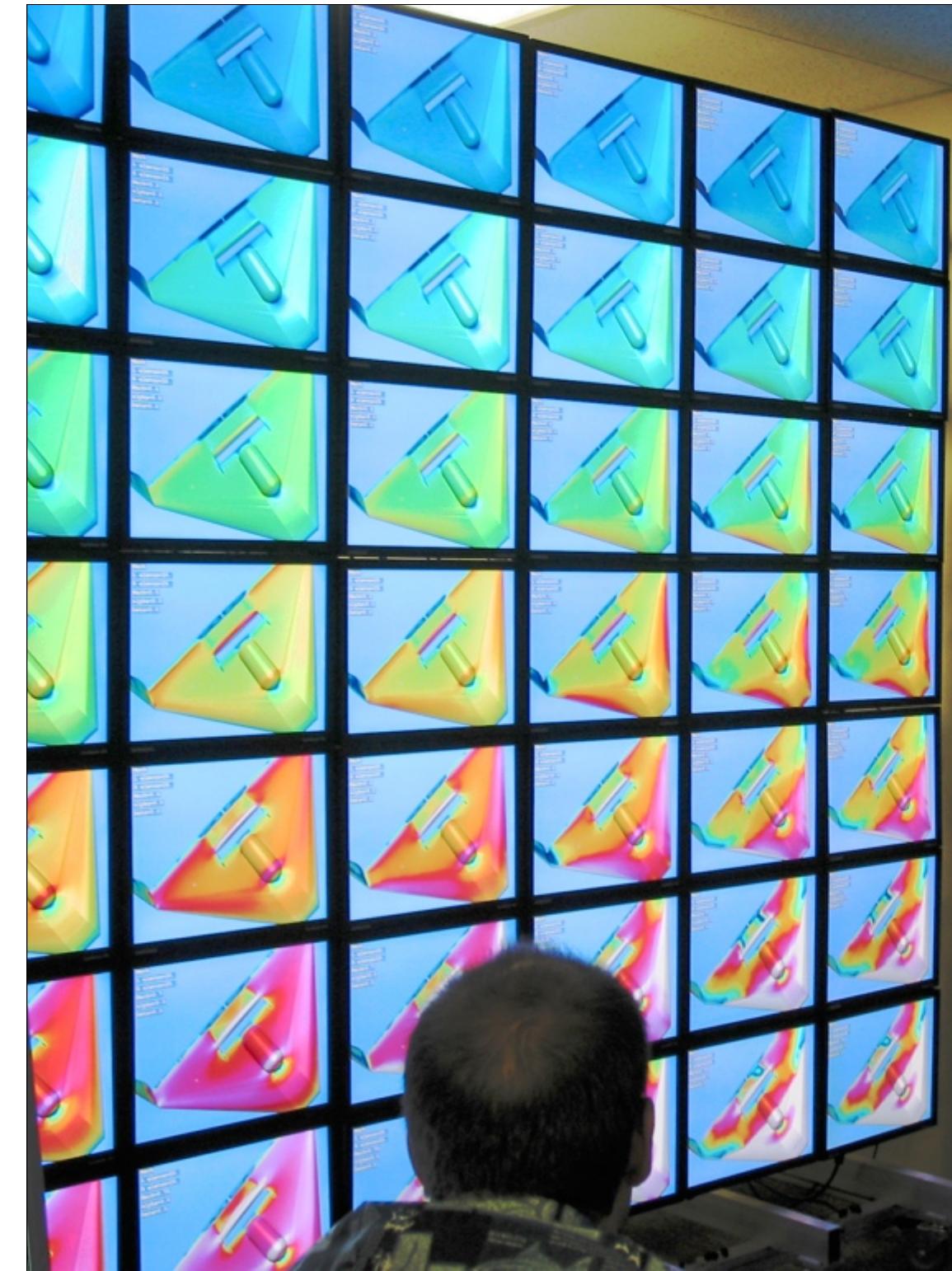


viewpoints (vp)







irk
ne

LP9V2
Lower panel out
(with breach)
Pressure

WP9V
Whole panel out
Pressure

STS-107 Reentry
Ames Modified GASP
James Brown
(code ASA) POC

SB9
Benchmark
Temperature

LP9V2
Lower panel out
(with breach)
Temperature

WP9V
Whole panel out
Temperature

Scalar
Mapped
LIC

LIC
+
Streamlines

LIC
+
Separation
Lines

Face
at 2000K =>

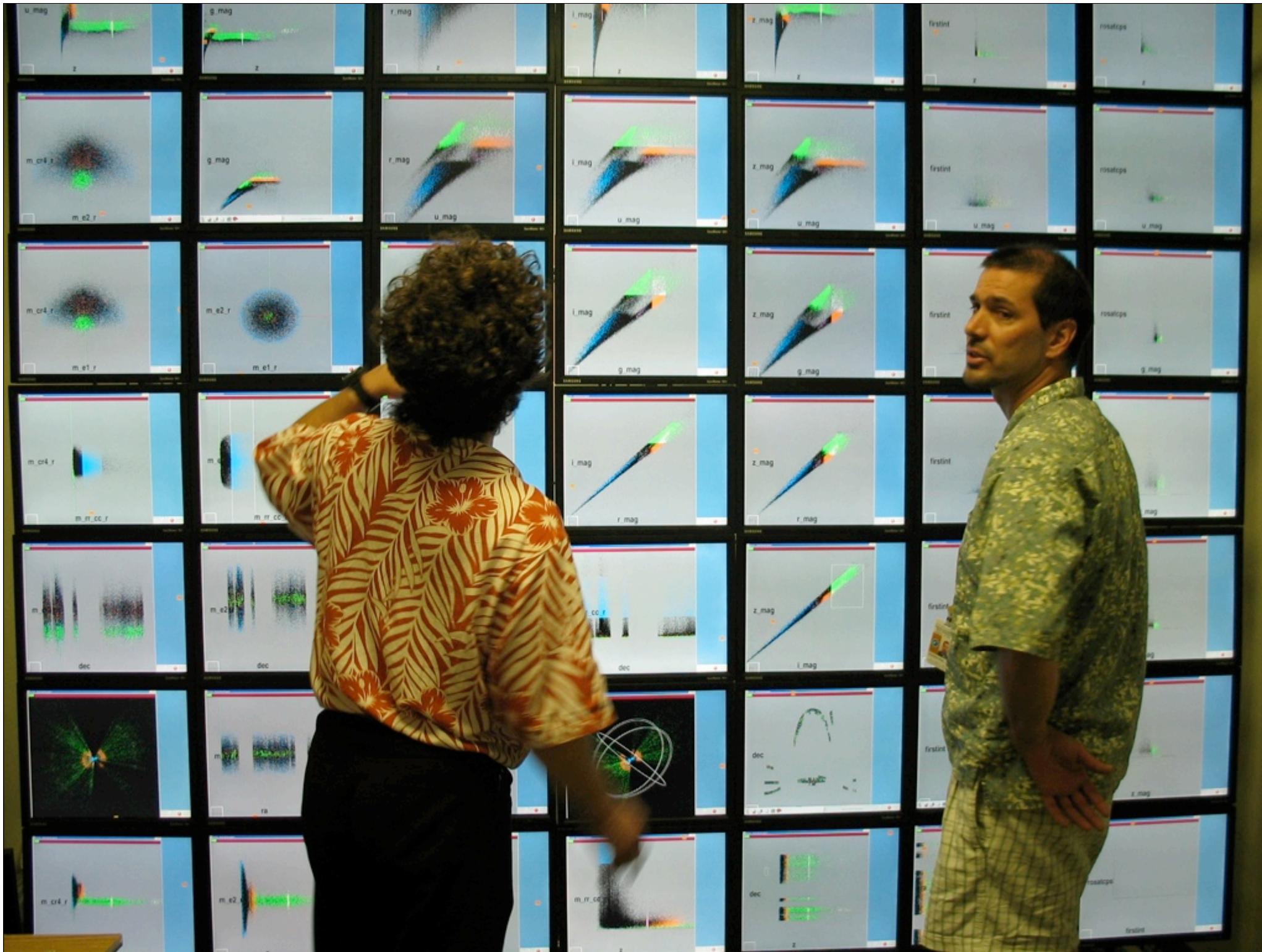
Interface



OptIPuter
Partner





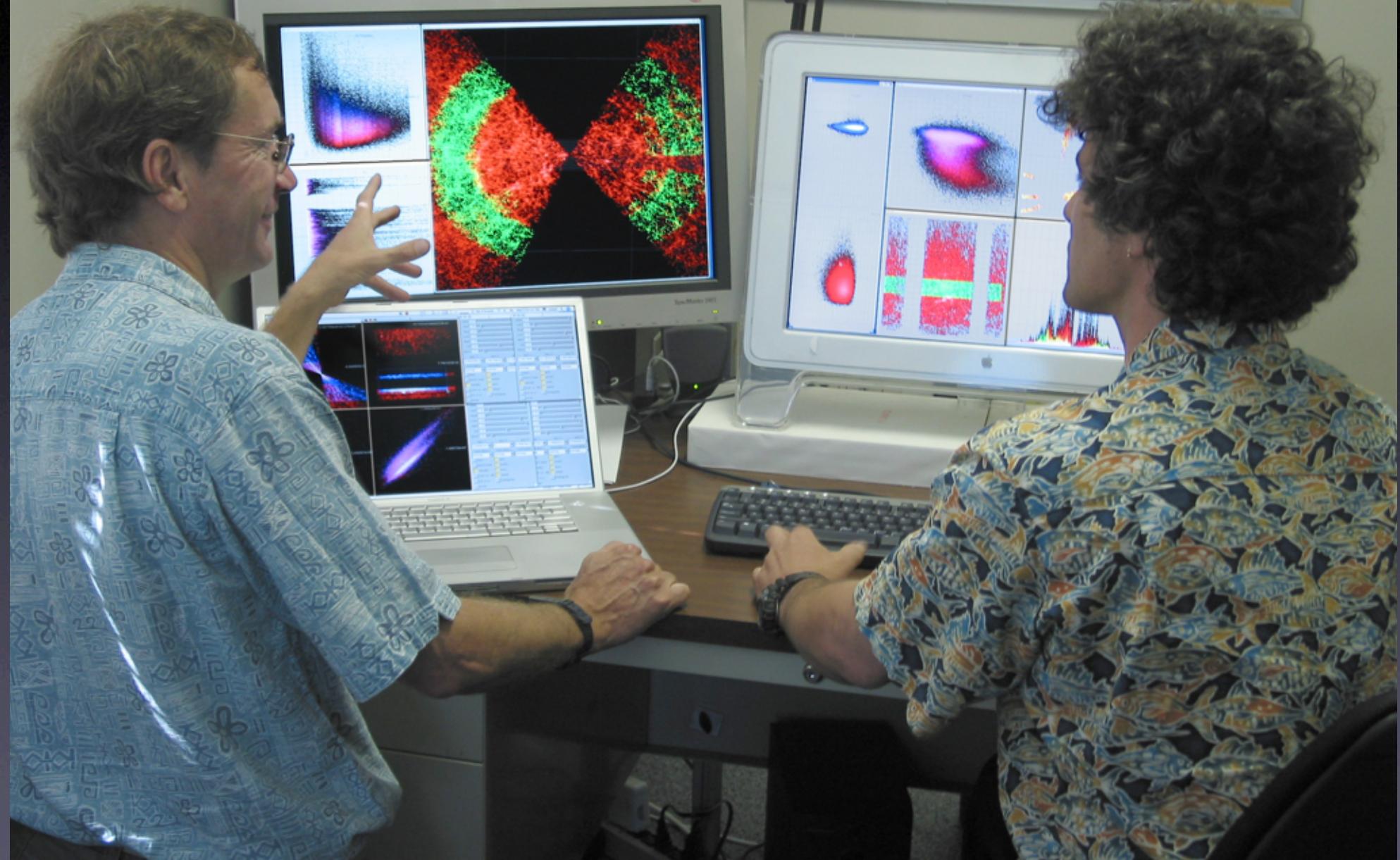


The Earth - From Space

A Satellite View of The World

SCIENCE IS NOT A CRIME

Electronica Frontier Foundation www.eff.org



viewpoints

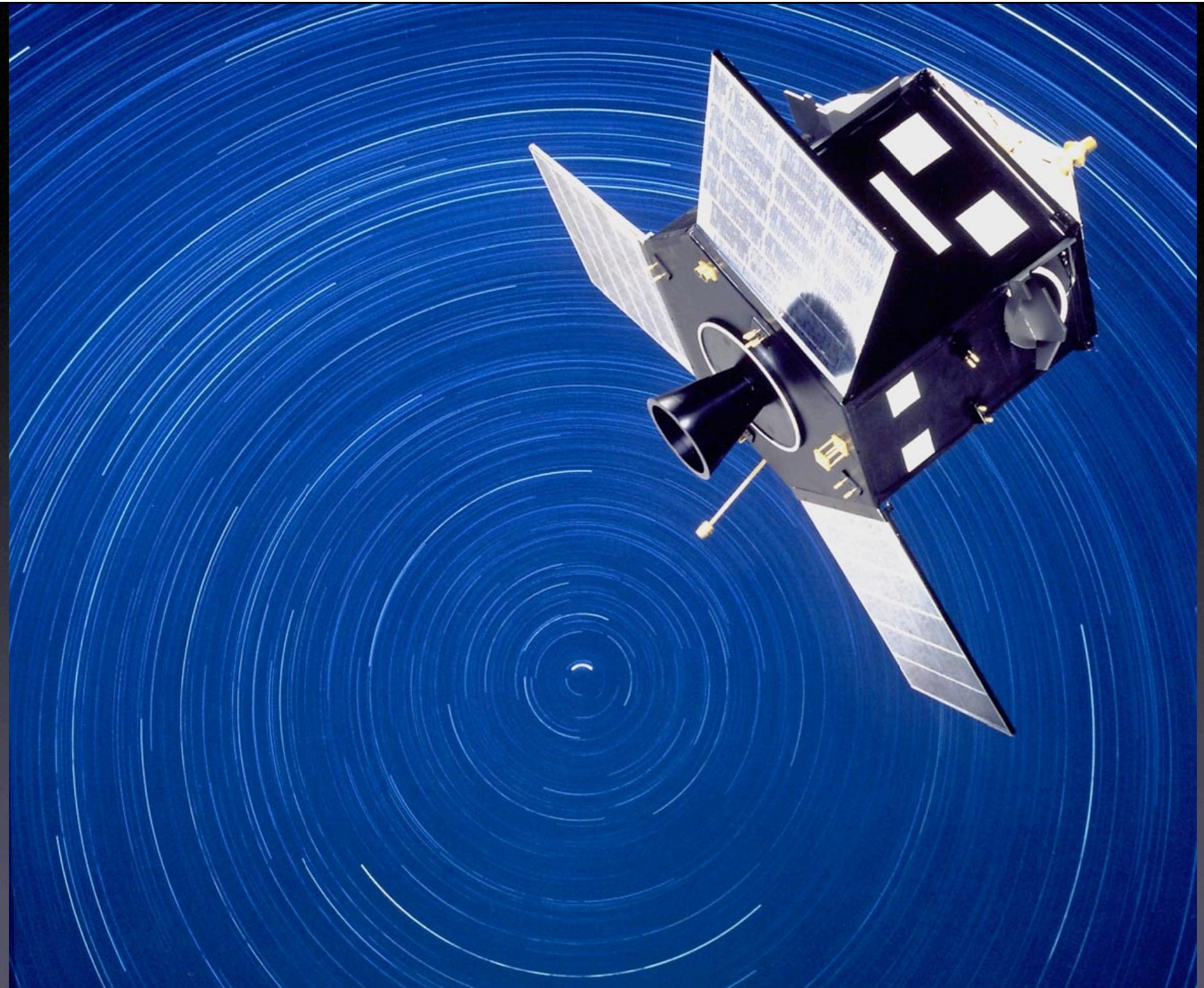
- “hyperwall for the masses”
- workstation / laptop application
- multiple views
 - high dimensional data
 - linked scatterplots + brushing
 - dynamic histograms, etc....
- normalizations, outlier detection/removal....
- high performance on large data

applications

- quantum chemistry
- CFD
- virology
- machine learning
- finance
- astrophysics

demos

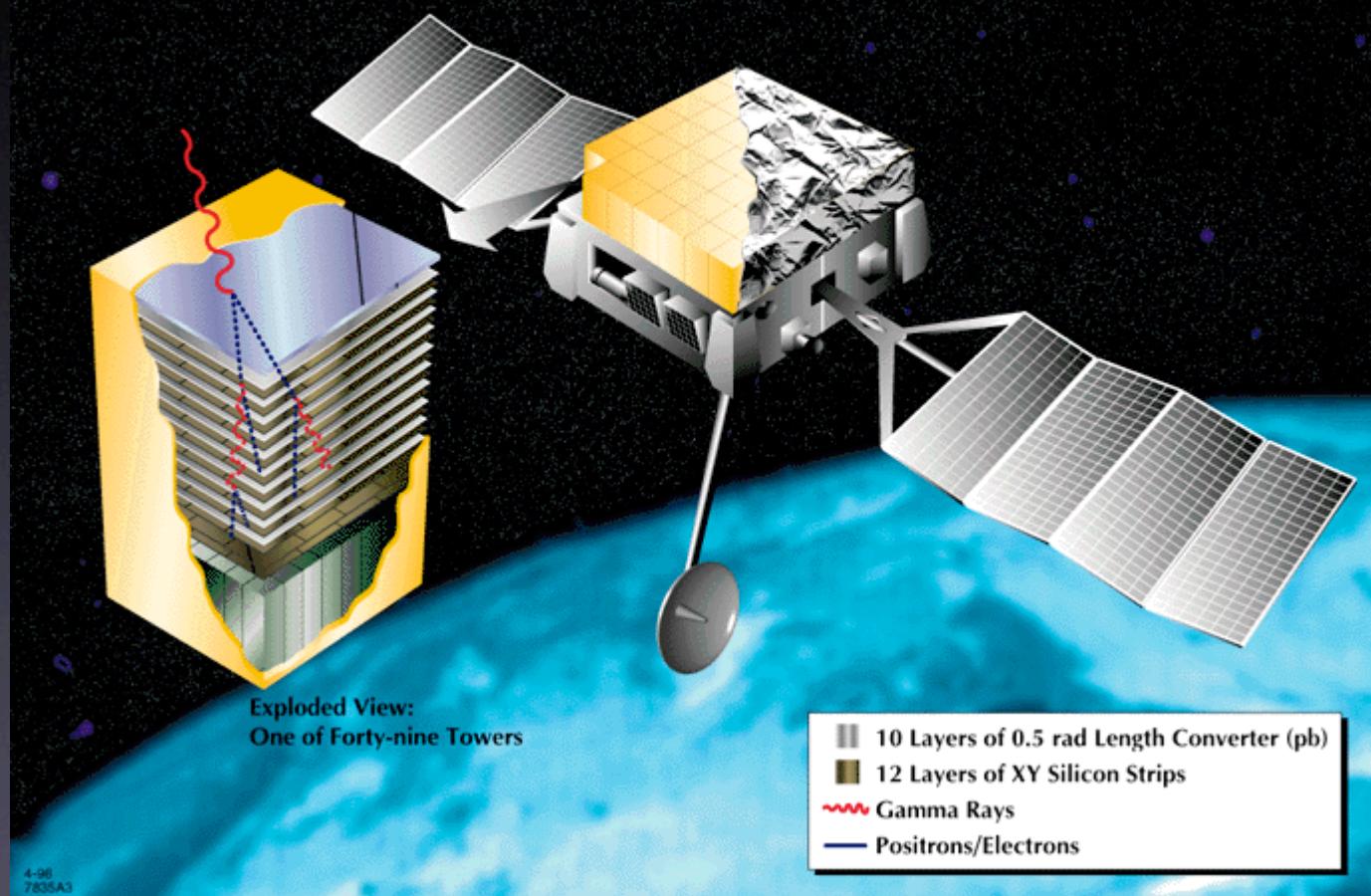
- Hipparcos
- GLAST

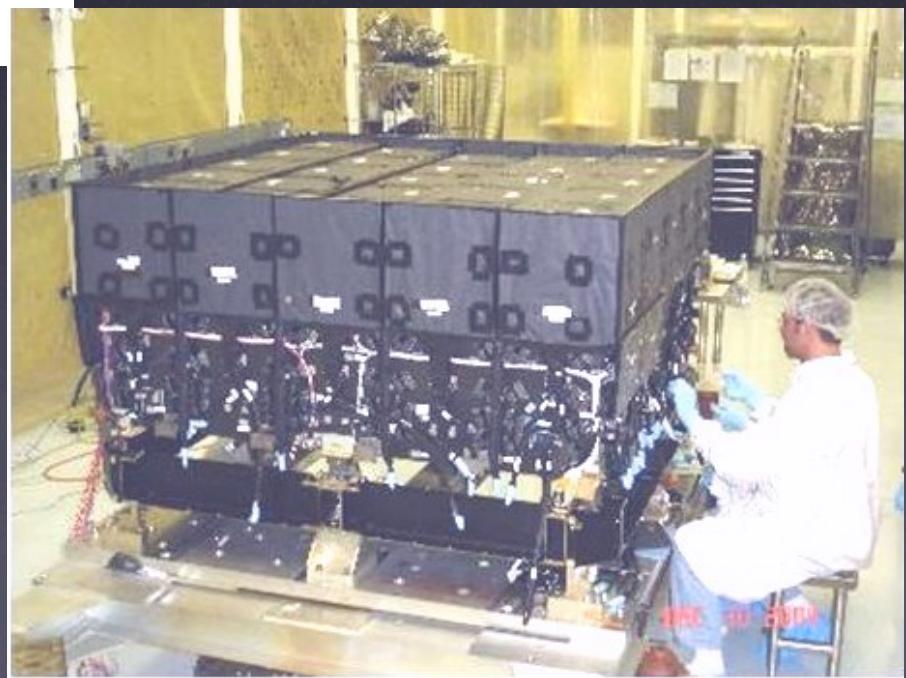
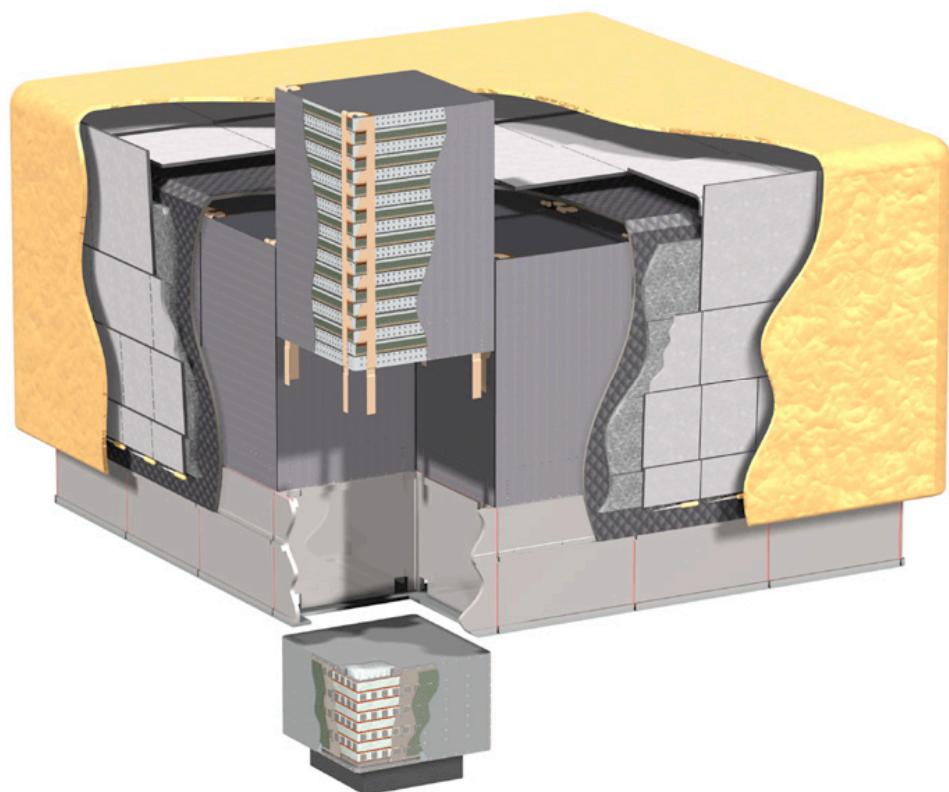


Hipparcos demo

- Tycho catalog
- 1,033,681 stars
- 21 quantities per star

GAMMA-RAY LARGE AREA SPACE TELESCOPE





GLAST demo

- 150,093 events
- 193 quantities per event

demo

dependencies

- openGL
- gcc, libc, stl
- gnu scientific library (gsl)
- blitz++
- fast light toolkit (fltk)
- gmm++ (blas, lapack, sparsepak...)

availability

- beta available now
 - linux, Apple OSX
- open source release 1.0 (2006)
 - MS windows
 - sourceforge, NASA GPL

enhancements

- refactor
- improve
 - ui (simpler, better)
 - machine learning
 - dimensionality reduction (ICA,...)
 - clustering
 - entropy, mutual information....
 - more views (spectra, n-dimensions, tours)
 - performance (threads,VBOs, shaders)